

STRUCTURAL REPAIR

(F-16)

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- 1. Objective.** As prescribed in AFI 38-201, *Determining Manpower Requirements*, this Air National Guard manpower standard (ANGMS) quantifies the manpower required to accomplish the tasks described in the work center description.
 - 2. Authority.** Air National Guard Regulation 66-14, *Maintenance Management*, 13 July 1988, contains policy and procedural guidance for the Structural Repair work center. This ANGMS has been developed in accordance with functional review procedures contained in AFPAM 38-208V1, *Air Force Management Engineering Program (MEP) Processes*, (formerly AFR 25-5).
 - 3. Applicability.** Applies to ANG F-16 Fighter Wings, Groups, and the 114th Fighter Squadron. Excludes the 162nd Fighter Group and the 184th Fighter Group. This standard applies only to peacetime operations.
 - 4. Standard Data:**
 - a. Classification. Type II.
 - b. Approval Date. 1 August 1992.
 - c. Man-hour Data Source. Operational Audit method (historical record and technical estimate techniques).
 - d. Standard Man-hour Equation. $Y = 230.2 + 1.452X$.
 - e. Workload Factor:
 - (1) Title. A Programmed Flying Hour.
 - (2) Definition. The average monthly programmed flying hours.
 - (3) Source. USAF Program Document, Volume II, maintained by NGB/FM.
 - 5. Application Instructions:**
 - a. The valid man-hour range for this ANGMS is 547.05 through 1068.91.
 - b. This ANGMS is appropriate for use with all peacetime civilian man-hour availability factors.
 - c. Determine the whole manpower requirements for this work center and refer to the appropriate column in the standard manpower table at attachment 2 to determine the required specialties.
 - 6. Statement of Conditions:**
 - a. There were no general conditions (environmental, equipment, or facility) which had an impact on the development or application of this manpower standard.
 - b. There were no approved enhancements that impacted the man-hour equation for this work center.

DONALD W. SHEPPERD
Major General, USAF
Director, Air National Guard

OFFICIAL

DEBORAH GILMORE
Acting Chief
Administrative Services

2 Attachments
1. Work Center Description
2. Standard Manpower Table

WORK CENTER DESCRIPTION**Structural Repair****(F-16)****DIRECT:****1. ON-EQUIPMENT MAINTENANCE:**

1.1 PERFORMS AIRCRAFT STRUCTURAL REPAIR. Inspects, troubleshoots, evaluates damage, designs, manufactures, modifies, and repairs aircraft component. Inspects, evaluates damage, and performs corrosion control procedures on component.

1.1.1. REPAIRS AIRCRAFT AIRFRAME COMPONENT.

1.1.2. REPAIRS AIRCRAFT CREW STATION SYSTEM COMPONENT.

1.1.3. REPAIRS AIRCRAFT LANDING GEAR COMPONENT.

1.1.4. REPAIRS AIRCRAFT FLIGHT CONTROL COMPONENT.

1.1.5. REPAIRS AIRCRAFT TURBOFAN POWER PLANT COMPONENT.

1.1.6. REPAIRS AUXILIARY POWER PLANT AND JET FUEL STARTER COMPONENT.

1.1.7. REPAIRS ENVIRONMENTAL CONTROL SYSTEM COMPONENT.

1.1.8. REPAIRS ELECTRICAL POWER SUPPLY COMPONENT.

1.1.9. REPAIRS LIGHTING SYSTEM COMPONENT.

1.1.10. PERFORMS MAINTENANCE ON HYDRAULIC AND PNEUMATIC POWER SYSTEM.

1.1.11. REPAIRS FUEL SYSTEM COMPONENT.

1.1.12. REPAIRS MISCELLANEOUS UTILITY COMPONENT.

1.1.13. REPAIRS AIRCRAFT INSTRUMENT COMPONENT.

1.1.14. REPAIRS AIRCRAFT COMMUNICATIONS COMPONENT.

1.1.15. REPAIRS FIRE CONTROL SYSTEM COMPONENT.

1.1.16. REPAIRS WEAPONS DELIVERY COMPONENT.

1.1.17. REPAIRS PENETRATION AIDS AND ELECTRONIC COUNTERMEASURE COMPONENT.

1.2. PERFORMS INSPECTION. Performs special, phase, and hourly aircraft inspection.

1.2.1. PERFORMS SPECIAL INSPECTION.

1.2.2. PERFORMS PHASE INSPECTION.

1.2.3. PERFORMS HOURLY INSPECTION.

2. OFF-EQUIPMENT MAINTENANCE. Inspects, troubleshoots, evaluates damage, designs, manufactures, modifies, and repairs component. Inspects, evaluates damage, and performs corrosion control procedure.

2.1. REPAIRS AIRCRAFT AIRFRAME COMPONENT.

2.2. REPAIRS AIRCRAFT CREW STATION SYSTEM COMPONENT.

2.3. REPAIRS AIRCRAFT LANDING GEAR SYSTEM COMPONENT.

2.4. REPAIRS AIRCRAFT FLIGHT CONTROL SYSTEM COMPONENT.

2.5. REPAIRS AIRCRAFT TURBOFAN POWER PLANT COMPONENT.

2.6. REPAIRS AUXILIARY POWER PLANT AND JET FUEL STARTER COMPONENT.

2.7. REPAIRS ENVIRONMENTAL CONTROL SYSTEM COMPONENT.

2.8. REPAIRS ELECTRICAL POWER SUPPLY COMPONENT.

2.9. REPAIRS AIRCRAFT LIGHTING SYSTEM COMPONENT.

2.10. REPAIRS HYDRAULIC AND PNEUMATIC SYSTEM COMPONENT.

2.11. REPAIRS AIRCRAFT FUEL SYSTEM COMPONENT.

2.12. REPAIRS MISCELLANEOUS UTILITY SYSTEM COMPONENT.

2.13. REPAIRS AIRCRAFT FLIGHT INSTRUMENT COMPONENT.

2.14. REPAIRS AIRCRAFT COMMUNICATIONS COMPONENT.

2.15. REPAIRS RADIO NAVIGATION SYSTEM COMPONENT.

2.16. REPAIRS FIRE CONTROL SYSTEM COMPONENT.

2.17. REPAIRS WEAPONS DELIVERY COMPONENT.

2.18. REPAIRS PENETRATION AIDS AND ECM COMPONENT.

2.19. REPAIRS AIRCRAFT EMERGENCY EQUIPMENT COMPONENT.

3. NONPOWERED AEROSPACE GROUND EQUIPMENT (AGE) AND SHOP INDUSTRIAL EQUIPMENT MAINTENANCE. Inspects and repairs nonpowered AGE and shop industrial equipment.

4. GENERAL SHOP SUPPORT. Performs shop support task to include local manufacture items.

5. AIRCRAFT BATTLE DAMAGE REPAIR (ABDR) PROGRAM MANAGEMENT. Manages and conducts ABDR training program. Maintains ABDR trailer. Prepares and submits quarterly progression report to higher headquarters.

5.1. MANAGES AND CONDUCTS ABDR TRAINING.

5.2. MAINTAINS ABDR TRAINER AIRCRAFT.

5.3. MAINTAINS ABDR TOOL KIT.

5.4. MAINTAINS ABDR CONSUMABLE HARDWARE.

5.5. MAINTAINS ABDR EQUIPMENT.

5.6. MAINTAINS ABDR TRAILER.

5.7. SUBMITS REPORT.

6. AIRCRAFT WASH FACILITY MANAGEMENT. Manages and maintains aircraft wash and corrosion control facility and related equipment.

7. TIME COMPLIANCE TECHNICAL ORDER (TCTO) MAINTENANCE. Performs maintenance required on or off the aircraft in accordance with applicable TCTO and completes documentation.

8. HAZARDOUS WASTE PROGRAM MANAGEMENT:

8.1. PROCESSES HAZARDOUS WASTE. Identifies, labels, contains, and disposes of hazardous waste.

8.2. MAINTAINS COLLECTION FACILITY. Maintains hazardous waste accumulation point, satellite collection area, and container.

8.3. MAINTAINS PROTECTIVE EQUIPMENT. Inspects and maintains protective equipment.

9. COMPOSITE TOOL KIT (CTK) MAINTENANCE. Performs start and end of day inspection. Maintains CTK by inspecting for serviceability, performing corrosion control, and replacing tool.

10. TECHNICAL ORDER SUBACCOUNT MAINTENANCE. Receives and posts data and change to technical order file. Maintains file for serviceability.

11. UNIT TRAINING ASSEMBLY (UTA) PREPARATION. Performs planning and scheduling task associated with preparation for UTA.

INDIRECT: Indirect work involves those tasks that are not readily identifiable with the work center's product or service. The major categories of standard indirect work are Supervision, Administration Meetings, Training, Supply, Equipment Maintenance, and Cleanup. See AFMS 00AA for the standard indirect description.

STANDARD MANPOWER TABLE											
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE								
Structural Repair/23130D			547.05 - 1068.91								
AIR FORCE SPECIALTY TTITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
Acft Structural Maint	458X2	Civ	4	5	6	7					
TOTAL			4	5	6	7					
AIR FORCE SPECIALTY TTITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
TOTAL											